



1636

Electronic Filing System (EFS) Data
Electronic Patent Application Submission

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EFS ID: 43221
Application ID: 10058291
Title of Invention: Recombinational cloning using
engineered recombination sites
First Named Inventor: James Hartley
Domestic/Foreign Application: Domestic Application
Filing Date: 2002-01-30
Effective Receipt Date: 2003-07-09
Submission Type: Information Disclosure
Statement
Filing Type:
Confirmation number: 3302
Attorney Docket Number: 0942.2850001



Total Fees Authorized:

Digital Certificate Holder: cn=Brian Joseph Del Buono,ou=Registered Attorneys,ou=Patent and
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US
Certificate Message Digest: 9f8848435ce6290831cb7238ba71ba804cdaa608



TRANSMITTAL

Electronic Version v1.1
Stylesheet Version v1.1.0

Title of Invention	Recombinational cloning using engineered recombination sites															
<p>Application Number: 10/058291 Date: 2002-01-30 First Named Applicant: James L. Confirmation Number: 3302 Attorney Docket Number: 0942.285000I</p> <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Brian J. Del Buono Registered Number: 42,473</td><td>/bjd/</td><td>Attorney</td></tr></tbody></table> <table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>IDS0942285000C-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table> <p>Comments</p>			Submitted by:	Elec. Sign.	Sign. Capacity	Brian J. Del Buono Registered Number: 42,473	/bjd/	Attorney	Documents being submitted	Files	us-ids	IDS0942285000C-usidst.xml		us-ids.dtd		us-ids.xsl
Submitted by:	Elec. Sign.	Sign. Capacity														
Brian J. Del Buono Registered Number: 42,473	/bjd/	Attorney														
Documents being submitted	Files															
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	us-ids.dtd															
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention	Recombinational cloning using engineered recombination sites
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Application Number: 10/058291
Confirmation Number: 3302
First Named Applicant: James Hartley
Attorney Docket Number: 0942.285000I
Search string: (4683195 or 4683202 or 4965188 or 5093257
or 5102797 or 5159062 or 5334375 or 5334575
or 5378618 or 5605793 or 5650557 or 5728551
or 5801030 or 5814300 or 5837458 or 5929307
or 5962255 or 5981177 or 6080576 or 6262341
or 6271436 or 6277608 or 6361972 or 6365377
or 6410266 or 6410317 or 6436707 or 5348886
or 20030027337).pn.

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4683195	1987-07-28	Mullis et al.			
	2	4683202	1987-07-28	Mullis			
	3	4965188	1990-10-23	Mullis et al.			
	4	5093257	1992-03-03	Gray, G.L.			
	5	5102797	1992-04-07	Tucker et al.			
	6	5159062	1992-10-27	Knapp et al.			
	7	5334375	1994-08-02	Nabi et al.			
	8	5334575	1994-08-02	Noonan et al.			
	9	5378618	1995-01-03	Sternberg et al.			
	10	5605793	1997-02-25	Stemmer, W.P.C.			
	11	5650557	1997-07-22	Hannah et al.			
	12	5728551	1998-03-17	Devine et al.			
	13	5801030	1998-09-01	McVey et al.			
	14	5814300	1998-09-29	Scott et al.			

	15	5837458	1998-11-17	Minshull et al.	
	16	5929307	1999-07-27	Hodges et al.	
	17	5962255	1999-10-05	Griffiths et al.	
	18	5981177	1999-11-09	Demirjian et al.	
	19	6080576	2000-06-27	Zambrowicz et al.	
	20	6262341	2001-07-17	Baszcynski et al.	B1
	21	6271436	2001-08-07	Piedrahita et al.	B1
	22	6277608	2001-08-21	Hartley et al.	B1
	23	6361972	2002-03-26	Harrington et al.	
	24	6365377	2002-04-02	Patten et al.	B1
	25	6410266	2002-06-25	Harrington et al.	
	26	6410317	2002-06-25	Farmer, A.F.	B1
	27	6436707	2002-08-20	Zambrowicz et al.	
	28	5348886	1994-09-20	Lee et al.	

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20030027337	2003-02-06	Droge et al.			

Signature

Examiner Name	Date



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*Admitted only in Maryland
*Admitted only in Virginia
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Federal Agencies

July 9, 2003

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JUL 10 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TECH CENTER 1600/2900

Art Unit 1636

Re: U.S. Utility Patent Application
Appl. No. 10/058,291; Filed: January 30, 2002
For: **Recombinational Cloning Using Engineered Recombination Sites**
Inventors: HARTLEY *et al.*
Our Ref: 0942.2850001/RWE/BJD/JKM

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Second Supplemental Information Disclosure Statement;
2. List of cited references on Form PTO-1449 (34 sheets);
3. A copy of each reference cited on Form PTO-1449 (120 documents: AN5-AL9, and AR72-AS105); and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents

July 9, 2003

Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a stylized flourish at the end.

Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

RWE/BJD/JKM/acr
Enclosures

SKGF_DC1:152773.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of:

Hartley *et al.*

Appl. No. 10/058,291

Filed: January 30, 2002

For: **Recombinational Cloning
Using Engineered
Recombination Sites**

Confirmation No. 3302

Art Unit: 1636

Examiner: *To Be Assigned*

Atty. Docket: 0942.285000I/RWE/BJD/JKM

Second Supplemental Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed electronically herewith, and Applicants' Information Disclosure Statement filed June 18, 2002, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates

should not be construed as an admission that the information was actually published on the date indicated.

This Second Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

Date: July 9, 2003

1100 New York Avenue, N.W.
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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000I/RWE/BJD/JKMAPPLICATION NO.
10/058199APPLICANT
Hartley et al.FILING DATE
January 30, 2002GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN5	EP 0 220 009	04/29/1987	Europe			Yes No
	AO5	WO 90/11375	10/04/1990	WIPO			Yes No
	AP5	EP 0 427 074	05/15/1991	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	72	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," <i>Nucl. Acids Res.</i> 25:1781-1788, Oxford University Press (1997).
AS	72	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," <i>Mol. Cell. Biol.</i> 17:857-861, American Society for Microbiology (1997).
AT	72	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 97:10424-10429, National Academy of Sciences of the USA (September 2000).

EXAMINER

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000I/RWE/BJD/JKMAPPLICATION NO.
10/058,291APPLICANT
Hartley et al.FILING DATE
January 30, 2002GROUP
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 91/09957	07/11/1991	WIPO			Yes No
	AM6	WO 92/15694	09/17/1992	WIPO			Yes No
	AN6	WO 92/22650	12/23/1992	WIPO			Yes No
	AO6	EP 0 542 466	05/19/1993	Europe			Yes No
	AP6	WO 94/03624	02/17/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	73	Angrand, P.O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," Nucl. Acids Res. 26:3263-3269, Oxford University Press (1998).
AS	73	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press (1993).
AT	73	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," Bio/Technology 2:1045-1049, Nature Publishing Company (1984).

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DATE CONSIDERED

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FORM PTO-1449

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
0942.285000I/RWE/BJD/JKMAPPLICATION NO.
10/058,291APPLICANT
Hartley et al.FILING DATE
January 30, 2002GROUP
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TECH CENTER 1600/2900**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

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							Yes
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	AL7	WO 94/18333	08/18/1994	WIPO			
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	AM7	WO 96/04393	02/15/1996	WIPO			
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	AN7	WO 96/30498	10/03/1996	WIPO			
							Yes
							No
	AO7	WO 96/40724	12/19/1996	WIPO			
							Yes
							No
	AP7	WO 99/55851	11/04/1999	WIPO			

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	74	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (1996).
	AS	74	Bernard, P. et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," J. Mol. Biol. 234:534-541, Academic Press (1993).
	AT	74	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," BioTechniques 21:320-323, Eaton Publishing Company (1996).

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Page 1 of 3

FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.285000I/RWE/BJD/JKM

APPLICATION NO.
10/058,291

APPLICANT
Hartley et al.

FILING DATE
January 30, 2002

GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL8	WO 00/60091	10/12/2000	WIPO			Yes No
	AM8	WO 01/05961	01/25/2001	WIPO			Yes No
	AN8	WO 01/07572	02/01/2001	WIPO			Yes No
	AO8	WO 01/11058	02/15/2001	WIPO			Yes No
	AP8	WO 01/62892	08/30/2001	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	75	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, The MIT Press (1985).
AS	75	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (1997).
AT	75	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Elsevier (1997).

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Page 5 of 34
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FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.2850001/RWE/BJD/JKM	APPLICATION NO. 10/058,971
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AL9	WO 02/05294	01/17/2002	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	76	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the <i>Escherichia coli</i> Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," <i>Mol. Cell. Biol.</i> 6:3059-3067, American Society for Microbiology (1986).
AS	76	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).
AT	76	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> 192:271-281, Elsevier Science B.V. (1997).

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FORM PTO-1449 <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000I/RWE/BJD/JKM	APPLICATION NO. 10/058,297
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

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	AL						Yes
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	AM						Yes
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	AN						Yes
							No
	AO						Yes
							No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	77	Chouluka, A., et al., "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site." <i>J. Virol.</i> 70:1792-1798, American Society for Microbiology (1996).
	AS	77	Chuang, C.-F., and Meyerowitz, E.M., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (2000).
	AT	77	Cigan, A.M., et al., "Mutational Analysis of the <i>HIS4</i> Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1988).

EXAMINER	DATE CONSIDERED
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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000I/RWE/BJD/JKMAPPLICATION NO.
10/058,294APPLICANT
Hartley et al.FILING DATE
January 30, 2002GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	78	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Tyl element retrotransposition," Proc. Natl. Acad. Sci. USA 88:936-940, National Academy of Sciences (1991).
AS	78	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," Nucl. Acids Res. 27:1300-1307, Oxford University Press (1999).
AT	78	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42</i> ^{G12V} and Dominant Negative <i>cdc42</i> ^{D118A} Mutations," J. Biol. Chem. 273:849-858, The American Society for Biochemistry and Molecular Biology (1998).

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FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.2850001/RWE/BJD/JKM	APPLICATION NO. 10/058,491
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AN						Yes
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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	79	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in Cyanobacteria," Appl. Environ. Microbiol. 65:523-528, American Society for Microbiology (1999).
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AT	79	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat." EMBO J. 4:761-767, IRL Press Limited (1985).

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**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
0942.285000I/RWE/BJD/JKM

APPLICATION NO.
10/058,291

APPLICANT
Hartley et al.

FILING DATE
January 30, 2002

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1636

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AR	80	Esposito, D., and Scocca, J.J., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," <i>Nucl. Acids Res.</i> 25:3605-3614, Oxford University Press (1997).
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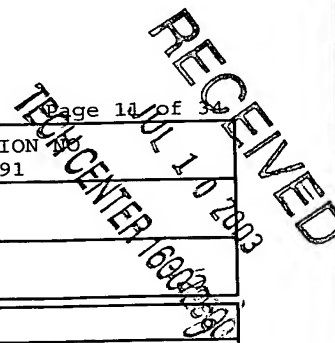
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	AR	81	Francia, M.V., et al., "The IntI1 Integron Integrase Preferentially Binds Single-Stranded DNA of the attC Site," <i>J. Bacteriol.</i> 181:6844-6849, American Society for Microbiology (1999).
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	AR	82	Gay, P., et al., "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," <i>J. Bacteriol.</i> 164:918-921, American Society for Microbiology (1985).
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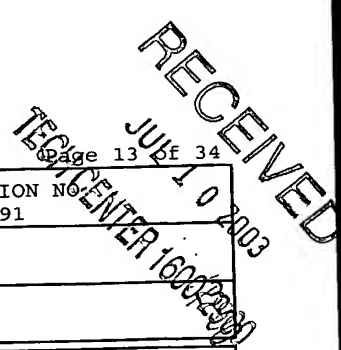
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AR	83	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," <i>J. Biol. Chem.</i> 260:12328-12335, The American Society of Biological Chemists (1985).
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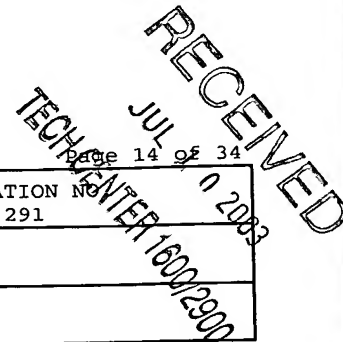
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AR	84	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from <i>Antirrhinum majus</i> , reveals homologies to the Ac element from maize," <i>Plant Molec. Biol.</i> 16:369-371, Kluwer Academic Publishers (1991).
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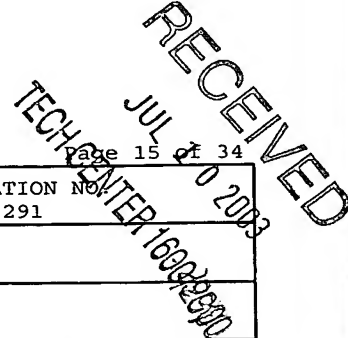
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AR	85	Hoess, R.H., and Abremski, K., "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," <i>Proc. Natl. Acad. Sci. USA</i> 81:1026-1029, National Academy of Sciences (1984).
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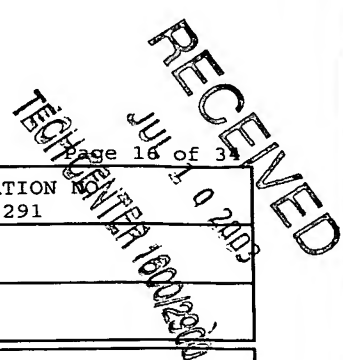
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AR	86	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (1998).
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AT	86	Kim, D.W., "Use of the human elongation factor 1 α promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).

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	AR	87	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," <i>Gene</i> 183:53-60, Elsevier Science B.V. (1996).
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	AT	87	Kozak, M., "Comparison of Initiation of Protein Synthesis in Procaryotes, Eucaryotes, and Organelles," <i>Microbiol. Rev.</i> 47:1-45, American Society for Microbiology (1983).

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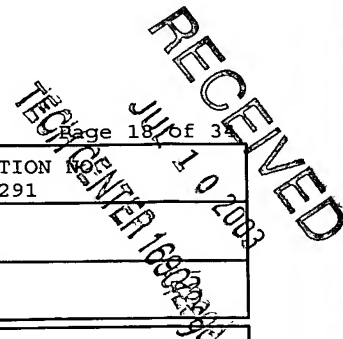
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	AS	88	Leslie, N.R., and Sherratt, D.J., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (April 1995).
	AT	88	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (July 1995).

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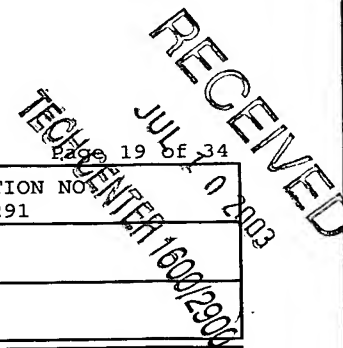
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	AR	89	Li, Z.-W., et al., "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).
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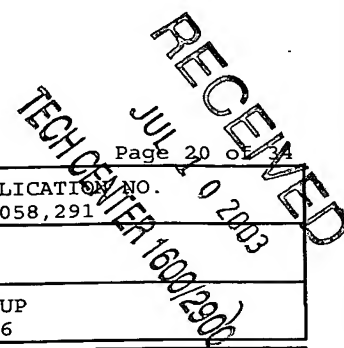
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	AR	<u>90</u>	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology (1999).
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	AR	<u>91</u>	Maniatis, T., et al., "Regulation of Inducible and Tissue-Specific Gene Expression," <i>Science</i> 236:1237-1245, American Association for the Advancement of Science (1987).
	AS	<u>91</u>	Mendiola, M.V., and de la Cruz, F., "Specificity of insertion of IS91, an insertion sequence present in α -haemolysin plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 3:979-984, Blackwell Scientific Publications (1989).
	AT	<u>91</u>	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in Tn21 and Related β -Lactamase Transposons," <i>J. Bacteriol.</i> 172:3745-3757, American Society for Microbiology (1990).

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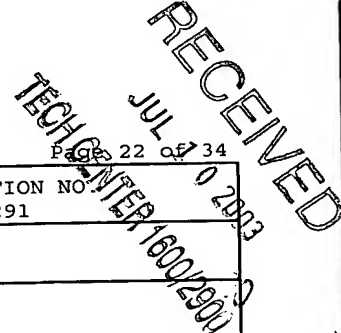
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>92</u>	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZ</i> α for Cloning, Mutagenesis, and Allele Replacement in Bacteria," <i>Plasmid</i> 35:1-13, Academic Press (1996).
	AS	<u>92</u>	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," <i>EMBO J.</i> 19:5194-5201, Oxford University Press (2000).
	AT	<u>92</u>	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," <i>Nucl. Acids Res.</i> 15:6469-6488, IRL Press (1987).

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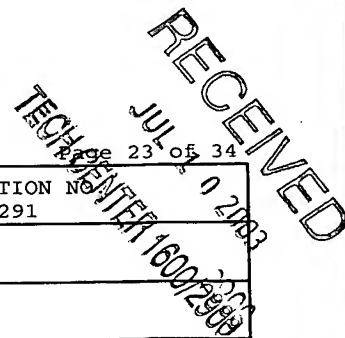
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AR	93	Mizushima, S., and Nagata, S., "pEF-BOS, a powerful mammalian expression vector," Nucl. Acids Res. 18:5322, Oxford University Press (1990).
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AT	93	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in Rhodobacter sphaeroides 2.4.1," Appl. Environ. Microbiol. 63:4713-4720, American Society for Microbiology (1997).

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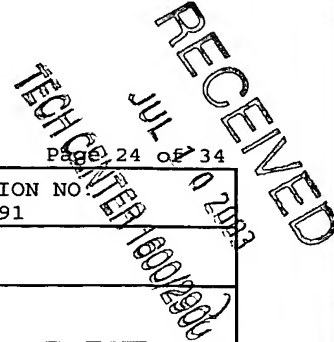
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	AS	<u>94</u>	Pal, S.K., et al., "Pl Plasmid Replication. Role of Initiator Titration in Copy Number Control," <i>J. Mol. Biol.</i> 192:275-285, Academic Press (1986).
	AT	<u>94</u>	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through an ortho-Cleavage Degradation Pathway," <i>Appl. Environ. Microbiol.</i> 64:748-751, American Society for Microbiology (1998).

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	AR	<u>95</u>	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (2000).
	AS	<u>95</u>	Perler, F.B., "InBase, the New England Biolabs Intein Database," <i>Nucl. Acids Res.</i> 27:346-347, Oxford University Press (1999).
	AT	<u>95</u>	Persson, M.A.A., "Combinatorial Libraries," <i>Intern. Rev. Immunol.</i> 10:153-163, Harwood Academic Publishers GmbH (1993).

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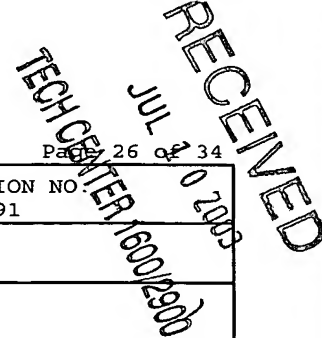
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	AR	<u>96</u>	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," <i>Mol. Cell. Biol.</i> 15:6593-6600, American Society for Microbiology (December 1995).
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	AT	<u>96</u>	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of <i>Escherichia coli</i> W: Engineering a Mobile Aromatic Degradative Cluster," <i>J. Bacteriol.</i> 178:111-120, American Society for Microbiology (1996).

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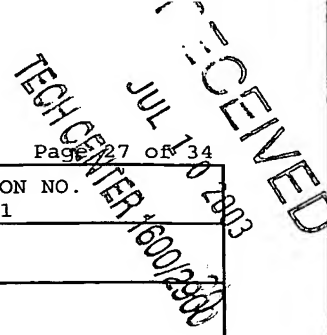
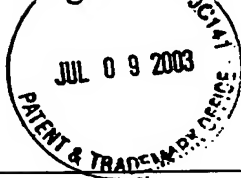
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	AR	<u>97</u>	Qin, M., et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," <i>Nucl. Acids Res.</i> 23:1923-1927, Oxford University Press (June 1995).
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	AT	<u>97</u>	Ross, W., and Landy, A., "Patterns of λ Int Recognition in the Regions of Strand Exchange," <i>Cell</i> 33:261-272, The MIT Press (1983).

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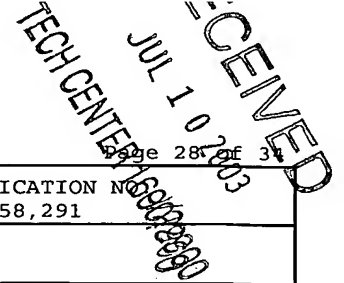
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	AR	<u>98</u>	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-462, CRC Press (1992).
	AS	<u>98</u>	Sato, T., et al., "The <i>cisA</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase," J. Bacteriol. 172:1092-1098, American Society for Microbiology (1990).
	AT	<u>98</u>	Sauer, B., et al., "Construction of Isogenic Cell Lines Expressing Human and Rat Angiotensin II AT ₁ Receptors by Cre-Mediated Site-Specific Recombination," Methods: A Companion to Methods in Enzymology 4:143-149, Academic Press (1992).

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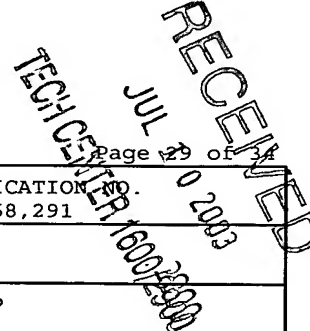
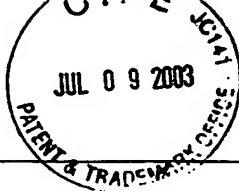
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	AR	99	Schild, D., et al., "Cloning of three human multifunction de novo purine biosynthetic genes by functional complementation of yeast mutations," <i>Proc. Natl. Acad. Sci. USA</i> 87:2916-2920, National Academy of Sciences (1990).
	AS	99	Schnepf, E., et al., "Bacillus thuringiensis and Its Pesticidal Crystal Proteins," <i>Microbiol. Mol. Biol. Rev.</i> 62:775-806, American Society for Microbiology (1998).
	AT	99	Segall, A.M., et al., "Architectural elements in nucleoprotein complexes: interchangeability of specific and non-specific DNA binding proteins," <i>EMBO J.</i> 13:4536-4548, Oxford University Press (October 1994).

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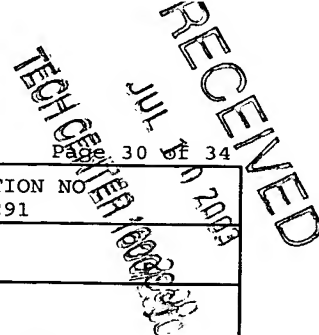
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>100</u>	Shim, J., et al., "Distinct and Redundant Functions of μ 1 Medium Chains of the AP-1 Clathrin-Associated Protein Complex in the Nematode <i>Caenorhabditis elegans</i> ," <i>Mol. Biol. Cell</i> 11:2743-2756, The American Society for Cell Biology (2000).
	AS	<u>100</u>	Skraly, F.A., et al., "Construction and Characterization of a 1,3-Propanediol Operon," <i>Appl. Environ. Microbiol.</i> 64:98-105, American Society for Microbiology (1998).
	AT	<u>100</u>	Spinella, D.G., et al., "Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles," <i>Nucl. Acids Res.</i> 27(e22):i-viii, Oxford University Press (1999).

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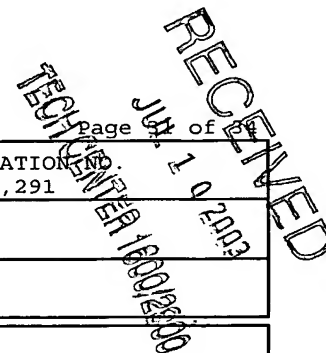
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	AS	<u>101</u>	Stassi, D.L., et al., "Ethyl-substituted erythromycin derivatives produced by directed metabolic engineering," Proc. Natl. Acad. Sci. USA 95:7305-7309, National Academy of Sciences (1998).
	AT	<u>101</u>	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," Trends Biochem. Sci. 23:486-490, Elsevier Science (1998).

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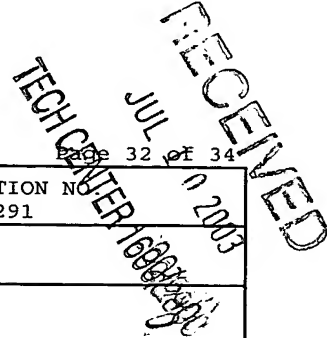
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	AR	<u>102</u>	Stenzel, T.T., et al., "The Integration Host Factor of <i>Escherichia coli</i> Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," Cell 49:709-717, Cell Press (1987).
	AS	<u>102</u>	Sugiura, S., et al., "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," J. Bacteriol. 175:5993-6001, American Society for Microbiology (1993).
	AT	<u>102</u>	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1 α ," J. Biol. Chem. 264:5791-5798, The American Society for Biochemistry and Molecular Biology (1989).

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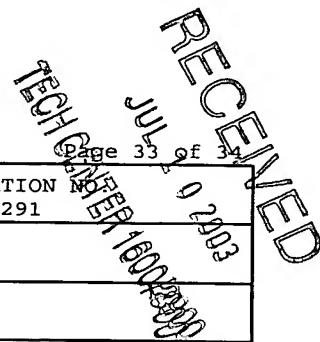
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	AS	<u>103</u>	Voss, S.D., et al., "The role of enhancers in the regulation of cell-type-specific transcriptional control," <i>Trends Biochem. Sci.</i> 11:287-289, Elsevier Science (1986).
	AT	<u>103</u>	Voziiyanov, Y., et al., "A general model for site-specific recombination by the integrase family recombinases," <i>Nucl. Acids Res.</i> 27:930-941, Oxford University Press (1999).

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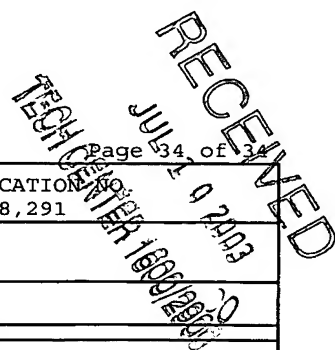
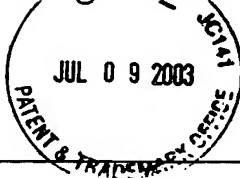
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>104</u>	Yoon, H., et al., "SSL1, a suppressor of a HIS4 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," <i>Genes Dev.</i> 6:2463-2477, Cold Spring Harbor Laboratory Press (1992).
	AS	<u>104</u>	Bauer, C.E. et al., "Extent of Sequence Homology Required for Bacteriophage Lambda Site-specific Recombination," <i>J. Mol. Biol.</i> 181:187-197, Academic Press Inc. (1985).
	AT	<u>104</u>	Cherepanov, P.P., and Wackernagel, W., "Gene disruption in <i>Escherichia coli</i> : Tc ^R and Km ^R cassettes with the option of Fip-catalyzed excision of the antibiotic-resistance determinant," <i>Gene</i> 158:9-14, Elsevier Science B.V. (1995).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000I/RWE/BJD/JKM.	APPLICATION NO. 10/058,291
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>105</u>	Collis, C.M. and Hall, R.M., "Expression of Antibiotic Resistance Genes in the Integrated Cassettes of Integrins," <i>Antimicrobial Agents and Chemotherapy</i> 39:155-162 (1995).
	AS	<u>105</u>	Scott, S.D., and Marples, B., "Comment on the use of the cre/loxP recombinase system for gene therapy vectors," <i>Gene Therapy</i> 7:1706, Macmillan Publishers Ltd. (2000).
	AT	<u>105</u>	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.